

# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 3] नई दिल्ली, शनिवार, जनवरी 21, 1989 (माघ 1, 1910)

No. 3] NEW DELHI, SATURDAY, JANUARY 21, 1989 (MAGHA 1, 1910)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[(Notifications and Notices issued by the Patent Office relating to Patents and Designs)]

#### THE PATENT OFFICE PATENTS AND DESIGNS

Calcutta, the 21st January 1989

#### ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

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Todi Estates,  
III Floor, Lower Parel (West),  
Bombay-400 013.

Telegraphic address "PATOFFICE".

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu, and Dadra and Nagar Haveli.

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

Telegraphic address "PATENTOFIC".

1-427GI/88

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

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Patent Office (Head Office),  
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5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020.

Telegraphic address "PATENTS".

Rest of India.

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

**Fees** :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated

Calcutta-20, the 16th December 1988

No. A-45011/1/88-Admn.—The following holidays will be observed by the Patent Office, Calcutta during the Calendar year 1989.

Sl. No.	Holidays & connected Festivals	Date	Day of the week
01.	Republic Day	January, 26	Thursday
02.	Sripanchami/Vasant Panchami	February, 10	Friday
03.	Dolyatra (Holi)	March, 22	Wednesday
04.	Good Friday	March, 24	Friday
05.	Mahabir Jayanti	April, 18	Tuesday
06.	Idul Fitr	May, 7	Sunday
07.	Buddha Purnima	May, 20	Saturday
08.	Idu'z Zuha (Bakrid)	July, 14	Friday
09.	Muharram	August, 13	Sunday
10.	Independence Day	August, 15	Tuesday
11.	Mahatma Gandhi's Birth Day	October, 2	Monday
12.	Addl. Day for Dusserah (Maha Navami)	October, 9	Monday
13.	Dussehra (Vijaya Dasami)	October, 10	Tuesday
14.	Diwali (Deepavali)	October, 29	Sunday
15.	Guru Nanak's Birth Day	November, 13	Monday
16.	Christmas Day	December, 25	Monday

SHANTI KUMAR,

Joint Controller of Patents &amp; Designs

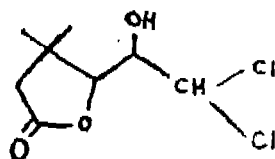
## LIST OF RESTRICTED HOLIDAYS FOR THE YEAR 1989

Sl. No.	Holidays and connected Festivals	Date	Day of the week
01.	New Year's Day	January, 01	Sunday
02.	Makar Sankranti	January, 14	Saturday
03.	Guru Govind Singh's Birth Day	January, 14	Saturday
04.	Pongal	January, 14	Saturday
05.	Netaji's Birth Day	January, 23	Monday
06.	Guru Ravidas' Birth Day	February, 20	Monday
07.	Hazrat Ali's Birth Day	February, 20	Monday
08.	Mahashivaratri	March, 06	Monday
09.	Sri Ram Krishna's Birth Day	March, 09	Thursday
10.	Holikadahama	March, 21	Tuesday
11.	Sab-I-Barat	March, 23	Thursday
12.	Chaitra Sukladi (Gudi Padava/Ugadi/Cheli Chand)	April, 06	Thursday
13.	Vaisakhi	April, 13	Thursday
14.	Ram Navami/Vishu	April, 14	Friday
15.	Jamat-ul-Vida	May, 05	Friday
16.	Rabindranath's Birth Day	May, 08	Monday
17.	Jamaigasthi	June, 09	Friday
18.	Rathayatra	July, 05	Wednesday
19.	Raksha Bandhan	August, 17	Thursday
20.	Janmashtami	August, 24	Thursday
21.	Vinayaka Chaturthi/Ganesh Chaturthi	September, 04	Monday
22.	Onam	September, 12	Tuesday
23.	Biswakarma Puja	September, 16	Saturday
24.	Mahalaya	September, 29	Friday
25.	Durga Puja (Mahasaptami)	October, 07	Saturday
26.	Durga Puja (Mahaashtami)	October, 08	Sunday
27.	Fathia-Duwaz-Dahum (Miladun Nabi, Id-i-Milad)	October, 13	Friday
28.	Kojagari Lakshmi Puja	October, 14	Saturday
29.	Maharshi Valmiki's Birth Day	October, 14	Saturday
30.	Kalipuja	October, 28	Saturday
31.	Gobardhan Puja	October, 30	Monday
32.	Bhatri Dwitiya (Bhai Duj)	October, 31	Tuesday
33.	Jagadhatri Puja	November, 07	Tuesday
34.	Guru Tegh Bahadur's Martyrdom Day	December, 03	Sunday
35.	Christmas Eve	December, 24	Sunday

## CORRIGENDUM

- (1) In the Gazette of India, Part III, Section 2 dated 18th June, 1988 under the heading 'complete specification' accepted on page 561

(1) In respect of Patent No. 162639 (180/BOM/1986) Formula XIII has



- (2) In the Gazette of India, Part III, Section 2, dated October 29, 1988 under the heading 'Application of Patents filed in the Patent Office Branch, Bombay-400013, on page 1130.

(i) In respect of Patent Application No. 218/BOM/1988. Title of invention read as 'SPIN-BONDING PROCESS OF SEALING A C P ON TO EXPLOSIVE CARTRIDGE CONTAINER/SHELL USED FOR CAP CLOSING MACHINE.

(ii) In respect of Patent Application No. 222/BOM/1988. The name of applicant is Dr. Mrs. YAMINI DUSHYANT SHAH.

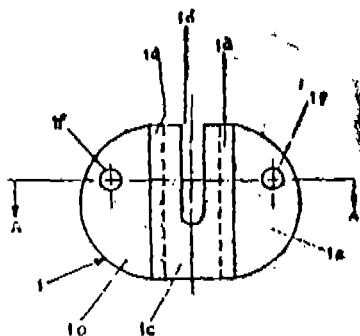
(iii) In respect of Patent Application No. 235/BOM/88. Title of invention read as

वायु प्रदूषण नियंत्रक

- (3) In the Gazette of India, Part III, Section 2, dated October 29, 1988 under the heading 'Complete Specification Accepted' on page No. 1140 and 1143.

(1) In respect of Patent No. 153682 (213/BOM/1985) delete the bottom of Fig. (2nd figure).

(2) In respect of Patent No. 163690 (296 BOM/86) in claim, in line 28 for word SLUS (S) read as SLOT (S) and line 51 read as THE SLOT IN THE WED OF SAID ONE CHANNEL MEMBER OF EACH and Fig. 1 is



APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHRYA JAGADISH BOSE ROAD, CALCUTTA-20.

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 15th December 1988

1028/Cal/88. Chambon Limited. Carton blank deceleration unit. (Convention dated 17-12-1987) U. K.

1029/Cal/88. E. I. Du Pont De Nemours and Company. Article of spandex having polycarbonate soft segment.

1030/Cal/88. Kurgansky Nauchno-Issledovatel'sky Institut Eksperimental'noi i Klinicheskoi Ortopedii i Travmatologii USSR. Automatic distraction device for osteosynthesis.

1031/Cal/88. The Lubrizol Corporation. A liquid composition having improved antioxidant characteristics.

[Divisional dated 16th October, 1985].

1032/Cal/88. Alvin H. Benesh. Wind turbine system using twin-savonius-type rotors.

The 16th December 1988

1033/Cal/88. SKW Trostberg Aktiengesellschaft. Process for the production of guanidine nitrate from urea and ammonium nitrate.

1034/Cal/88. Institut Mekhaniki Metallopolimernykh Sistem Akademii Nauk Belorusskoi SSR. Process for producing tubular polymeric anticorrosion film.

1035/Cal/88. Dr. A. K. Mukhopadhyay. Microprocessor based phase meter.

1036/Cal/88. Norsolor. Thermoplastic compositions based on saturated polyester and moulded articles containing them.

1037/Cal/88. Hoechst Celanese Corporation. Radiation curable coating composition based on a silica/vinyl-functional silanol dispersion.

1038/Cal/88. Hoechst Celanese Corporation. Moisture-resistant, coated thermoplastic film having enhanced adhesion to inks and metallic layers.

The 19th December 1988

1039/Cal/88. Thermatool Corporation. Apparatus and method for electrically butt welding of skelp edges faces which have been preheated.

1040/Cal/88. E. I. Du Pont De Nemours and Company. Method of warp knitting.

1041/Cal/88. Engelhard Corporation. Large-pored crystalline titanium molecular sieve zeolites.

1042/Cal/88. Engelhard Corporation. Small-pored crystalline titanium molecular sieve zeolites.

1043/Cal/88. Engelhard Corporation. Improved zeolitic molecular sieve fluid cracking catalyst made from kaolin clay by in situ method.

1044/Cal/88. Punya Brata Chaudhuri. Method of producing cellulosic pulp for paper making.

1045/Cal/88. Shyam Ranjan Prasad Singh, Ranjan Septic Latrine.

The 20th December 1988

1046/Cal/88. Kurgansky Nauchno-Issledovatel'sky Institut Eksperimental'noi i Klinicheskoi Ortopedii i Travmatologii. Distraction apparatus for plastic reconstruction of hand.

1047/Cal/88. Key Ocean Services, Inc. An improved vessel mooring system. [Div. date 8th Oct. 1985].

1048/Cal/88. Compack Systems Limited. Apparatus for laying a mat of fibrous material. (Convention dated 22-12-1987) Great Britain.

1049/Del/88. Compak Systems Limited. Press for pressing materials such as fibrous materials into board. (Convention dated 22-12-1987) Great Britain.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-5.

The 21st November 1988

1008/Del/88. Sumitter Choudhary, "Contra S".

1009/Del/88. Morgan Construction Co., "Overhung roll assembly".

The 22nd November 1988

1010/Del/88. Anderson Strathclyde PLC., "Mining Machine". (Convention date 25-11-87) (U.K.).

1011/Del/88. Rohm & Hass Co., "A process of preparing glutaric-anhydride-containing copolymers".

1012/Del/88. BP Chemicals Ltd., "Ziegler-Natta Catalyst and a process for its preparation".

1013/Del/88. The Goodyear Tire & Rubber Co., "A process for producing natural rubber". [Divisional date 14th March, 1986].

1014/Del/88. Exxon Chemical Patents Inc., "Improved processing isooolefin polymers".

1015/Del/88. Shell Oil Co., "Olefin polymerization catalysts".

The 24th November 1988

1016/Del/88. Glaxo Group Ltd., "Compositions". (Convention date 24th November, 1987) (U.K.).

1017/Del/88. Satish Chandra Bisarya, "A novel process for the preparation of isoamyl acetate, (A flavouring compound) and isoamyl salicylate (A perfumery compound) from aspiring mother liquor".

1018/Del/88. Shri Ram Fibres Ltd., "A process for the preparation of a transfer foil".

1019/Del/88. Shri Ram Fibres Ltd., "A process for the preparation of microcrystalline polymers".

1020/Del/88. Spetsialnoe Konstruktorskoe-Tekhnologicheskoe Bjuro Po Izolyatoram I Armature VPO "SOJUZELEKTROSETIZOLYATSIJA", "High voltage suspension insulator".

1021/Del/88. Microtek Lab, Inc., "Paper feed system for opto-electronic scanner".

1022/Del/88. Microtek Lab, Inc., "Optical color line scanning and imaging device having a roller drive".

1023/Del/88. Colgate-Palmolive Co., "Detergent composition".

[Divisional date 17th March, 1986].

The 25th November 1988

1024/Del/88. The Uniroyal Goodrich Tire Co., "Method and apparatus for controlling the weight per unit length of a continuous extrudate".

1025/Del/88. Schlumberger Industries, Inc., "Vortex flow-meter transducer".

1026/Del/88. Kuhnsdorfer Holzfasermattenwerk, Pacht-Und Betriebs-Gesellschaft m.b.H., "Improvements in or relating to a method of making a storable handleable fibrous mat".

1027/Del/88. Shell Oil Co., "Propylene polymers and their production".

1028/Del/88. Imperial Chemical Industries, PLC., "Emulsification method and apparatus". (Convention date 17th December, 1987, 7th March, 1988 & 5th July, 1988) (U.K.).

APPLICATIONS FOR THE PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002.

The 5th December 1988

866/Mas/88. Wu Sheng-Tung. Device for Automatic Weighting objects in conveyance.

The 6th December 1988

867/Mas/88. Zimpro/Passavant Inc. Two-stage wastewater treatment process.

868/Mas/88. Townsend Controls Pty. Ltd. Irrigation tape and method of producing same.

869/Mas/88. Laszlo Hanko. Compositions for the reduction of phlebotasale and process for preparing same.

870/Mas/88. Mitsubishi Denki Kabushiki Kaisha. Insulator Type gas circuit interrupter.

The 7th December 1988

871/Mas/88. Namakkal Sadasiva Iyer Kodanda Raman. Some improvements in transmission system in motor vehicles performing several functions in one operation.

872/Mas/88. The Regents of the University of California. Plasma pinch system and method of using same.

873/Mas/88. Fosco International Limited. Production of articles of bonded particulate material and binder compositions for use therein. (December 24, 1987; Great Britain).

The 8th December 1988

874/Mas/88. Iltoop Chungath Joseph. Improvements in or relating to circuit breakers.

875/Mas/88. Ferring B. V. Method and apparatus useful for delivering medicinal compositions into the bladder and urinary tract.

#### PATENTS SEALED

153906	154605	155696	155706	156121	160851	161085
161540	161914	161951	161965	162131	162133	162153
162177	162229	162245	162271	162302	162321	162322
162363	162381	162384	162385	162416	162422	162423
162426	162427	162428	162433	162435	162436	162437
162438	162439	162462	162463	162473	162476	162477
162478	162479	162480	162482	162483	162485	162486
162488	162494	162495	162498	162502	162503	162510
162527	162530	162552	162554	162555	162556	162571
162579	162591	162593	162594	162595	162596	162597
162598	162601	162602	162603	162605	162606	162609
162611	162612	162613	162615	162616	162618	162622
162623	162630	162632	162633	162636	162637	162639
162906	162941	162946	163021	163048	163059	

#### AMENDMENT UNDER SECTION 78

The claims of accepted complete Specification No. 161961 has been amended under Sec. 78 of the Act with consequential corresponding amendment of the description. The Specification has been reprinted.

## RENEWAL FEES PAID

141905	141719	144375	144376	144686	145102	145293
145305	145687	146043	146554	146670	146730	146951
148118	148348	148808	148811	148898	149184	149480
149569	149690	150359	150376	150606	150613	150716
150732	150802	150996	151909	152295	152364	152370
152773	152885	153127	153129	153211	153222	153410
153693	153696	153733	153977	154105	154151	154196
154461	154717	154770	154947	154948	155221	155405
155700	155954	156150	156197	156251	156262	156370
156437	156468	156508	156588	156677	156747	156914
156915	156939	157017	157179	157213	157282	157365
157465	157558	157572	157722	157839	157903	157925
157928	158003	158014	158106	158300	158582	158715
158766	158850	158979	158987	159228	159237	159772
159874	159876	159942	160244	160314	160426	160594
160616	160644	160646	160725	160728	160729	160804
160920	160983	160968	161118	161141	161172	161254
161312	161340	161345	161359	161366	161402	161403
161431	161433	161435	161436	161439	161441	161443
161448	161449	161450	161533	161534	161588	161589
161591	161593	161603	161625	161682	161684	161687
161718	161721	161739	161766	161767	161770	161862
161863	161917	161949	162007	162022	162025	162074
162116	162123	162147	162158	162168	162191	162195
162220	162264	162270.				

## CESSATION OF PATENTS

146183	146184	146187	146194	146195	146198	146199
146200	146201	146203	146206	146207	146208	146209
146211	146213	146217	146219	146220	146222	146223
146226	146228	146235	146236	146242	146245	146246
146247	146248	146249	146250	146251	146253	146256
146258	146261	146263	146264	146267	146269	146270
146271	146272	146275	146276	146278	146279	146282
146283	146285	146286	146288	146290	146291	146295
146296	146297	146298	146300	146302	146304	146306
146308	146309	146310	146311	146313	146316	146317
146318	146323	146326	146327	146328	146330	146332
146334	146335	146336	146338	146340	146341	146342
146343	146344	146346	146349	146352	146353	146354
146355	146356	146357	146358	146364	146366	146367
146368	146374	146375	146376	146378	146380	146381
146383	146384	146385	146389	146394	146395	146396
146397	146398	146402	146403	146406	146409	146412
146415	146416	146417	146418	146419	146420	146421
146423	146425	146427	146428	146429	146430	146431
146433	146434	146435.				

## RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 157257 granted to Rajni Bhandari for an invention relating to "improved headlamp construction for automobiles".

The patent ceased on the 3-7-87 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 10-10-87.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 21st March 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the

opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

## REGISTRATION OF DESIGNS

The following design have been registered. They are no open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 159764. Eastern Metallizing Corporation, an Indian registered Partnership firm. "Ground Rod". 30th May, 1988.

Class 3. No. 159914. Chemical Centre, 3842/4, Chowk Tel Mandi, New Delhi-110055. India, an Indian Proprietary concern. "Bottle". 5th July, 1988.

Class 3. Nos. 160044 to 160046. Pearl Polymers Pvt. Ltd., 704, Rohit House, 3 Tolstoy Marg, New Delhi-110 001, India, an Indian Company registered under the provisions of Indian Companies Act, 1932. "Bottle". 22nd August, 1988.

Class 3. Nos. 160047 & 160048. Jetking Electronics Ltd., of 3830, Pataudi House, Daryaganj, New Delhi, India, an Indian Company. "a Radio". 25th August, 1988.

Class 3. No. 160057. M/s. Marudhar Plastic Industries, IIrd Floor, 48, Vithalwadi, Kalbadevi Road, Bombay-400 002, Maharashtra, India, an Indian Proprietorship Firm. "Comb". 29th August, 1988.

Class 8. Nos. 160153 to 160156. Varanasi Carpets, Madho Singh, P. O. Aural, Distt. Varanasi (U. P.), India. "Carpet". 19th September, 1988.

Class 8. Nos. 160157 & 160158. Motilal & Brothers, Ghosia, P. O. Aural, Distt. Varanasi-221301, (U. P.), India. "Carpet". 19th September, 1988.

Class 8. Nos. 160159 & 160160. Prakash Oriental Manufacturers, Ghosia, P. O. Aural, Distt. Varanasi, Uttar Pradesh India. "Carpet". 19th September, 1988.

Class 8. Nos. 160161 to 160167. Kohinoor Woollen Carpet Industries, Village Chhatampur, P. O. Aural, Distt. Varanasi, (U. P.), India. "Carpet". 19th September, 1988.

Class 10. No. 159920. Api Polymers (India) Private Limited, 70-B, Shazada Bagh Extn., Old Rohtak Road, Delhi-10055, India, a Company incorporated under the Indian Companies Act. "Sole". 6th July,

Extn. of Copyright

Nil.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the proscribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS : 8; 67-A.

164131

Int. Cl. : G 08 b 17/10, 21/00; G 01 J 1/28.

#### DEVICE FOR DETECTING DIFFERENCES IN COLOR OF A MATERIAL TO BE INSPECTED.

Applicant : N. V. OPTISCHE INDUSTRIE "DE OUDE DELFT", OF VAN MIERVELTIAAN 9, 2612 'XE DELFT, THE NETHERLANDS.

Inventor : I. JOHANNES BREEMER.

Application No. 79/Cal/85 filed February 5, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

A device for detecting differences in colour of a material to be inspected, which comprises :

means for illuminating said material including a first light source emitting light of a first colour and a second light source emitting light of a second colour;

means for measuring amounts of light reflected by said material;

electronic switching means for alternately energizing at a first rate said first and second light source;

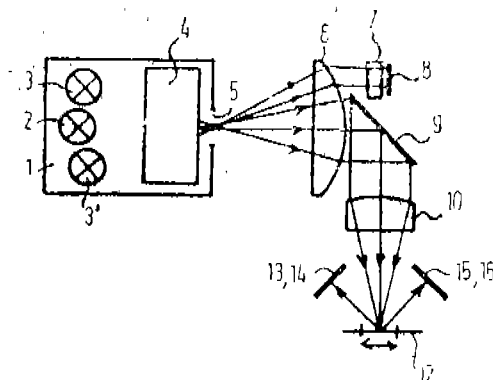
electronic control means responsive to said measured amounts of reflected first light source and reflected second light source light for controlling intensity of said second light source whereby measured amounts of reflected first and second light source lights have predetermined ratio;

means for providing second light source signals representing amount of light emitted by said second light source during a measurement;

an optical system for delivering to first and second spaced-apart measuring regions simultaneously a constant portion of said light source being energized, said reflected light measuring means making a first measurement at said first measuring region and subsequently making a second measurement at said second measuring region, said second light source signals providing means comprising means for providing said second light source signals during said first and said second measurements, respectively;

means to detect a difference between said second light source signals during said first and said second measurements, and

further means for transporting said material from said first measuring region to said second measuring region and means to delay said second light source signal obtained during said first measurement for a time approximately equal to time necessary to transport said material from said first measuring region to said second measuring region.



Compl. specn. 30 pages.

Drgs. 3 sheets

CLASS : 9-D & 94-H.

164132

Int. Cl. : B 02 c 4/00; C 22 c 33/00, 39/00.

#### HIGHLY ABRASIVE RESISTANT MATERIAL.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, 06095, U. S. A.

Inventor : I. ARTHUR LEE RANKIN, III.

Application No. 329/Cal/85 filed April 30, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims

A grinding roll for use in a bowl mill comprising at least an external surface formed of a highly abrasive resistant alloy having a composition, by weight percentages, of 4.0—6% Carbon; 3.0—14% Manganese; 1.0—2.5% Silicon; 15.0—30.0% Chromium; and 4.0—6% Molybdenum; with 0.5-2.0% Boron being added thereto, the balance being essentially iron.

Compl. specn. 25 pages

Drg. 1 sheet

CLASS : 28-B & C.

164133

Int. Cl. : F 23 d 13/00.

#### AN IMPROVED SPLIT FIRE BURNER.

Applicant : HYDROCARBON RESOURCES DEVELOPMENT CO., AT 6-OLD POST OFFICE STREET, ROOM NO. 66 (GROUND FLOOR), CALCUTTA-700001, WEST BENGAL.

Inventors : 1. BONANIDAS, 2. SURAJIT DAS.

Application No. 451/Cal/85 filed June 17, 1985.

Comp. Specn. left on 12th June, 1986.

Appropriate office for opposition proceedings (Rule Patents Rules, 1972) Patent Office, Calcutta.

## 20 Claims

An improved spit fire burner for carrying out on-the-spot testing of oils or liquid hydrocarbons such as kerosene, light diesel and high speed diesel of a wide range of viscosity and tubing head pressure as obtained in the oil-field exploration work comprising :

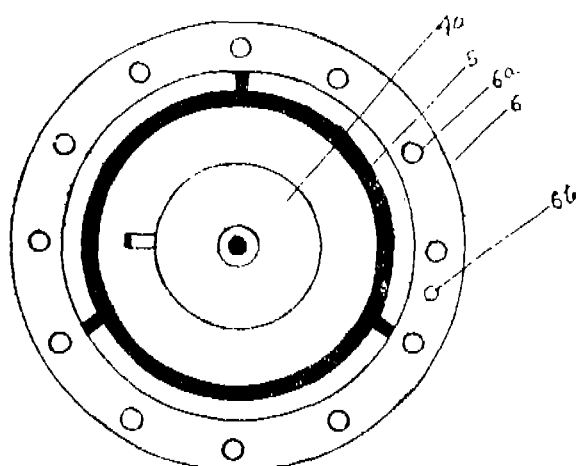
end cap having at least one inlet nozzle or port for feeding said oil or liquid hydrocarbons into said burner;

oil body having one or more slots cut tangentially therein for imparting a swirling motion to said oils or liquid hydrocarbons when these are allowed to flow through said slots;

air body having at least one venturi tube device for atomising said oils or liquid hydrocarbons passing through it and at least one inlet nozzle for injecting pressurised air through one or more tangentially-cut slots made therein to cause further atomisation of said oils or liquid hydrocarbons and to cause also their intimate mixing with said air;

front cap having at least one outlet nozzle for allowing the mixture of said air and oils or liquid hydrocarbons to gush out therethrough and be burnt; and

at least one water ring and one shroud adapted to be secured to said burner and disposed to surround said outlet nozzle, said water ring being provided with one or more nozzles for spraying droplets of water into the flame of said burner in predetermined amounts and at predetermined sizes of the droplets for enhancing combustion of said mixture and lowering temperature of the space around said burner, and said shroud allowing channelled streams of air to be drawn into said flame from the surrounding space for complete combustion of said mixture.



Provisional Specn. 10 pages.

Compl. specn. 15 pages.

Drgs. 5 sheets.

Drg. Nil

CLASS : 128-A.

164134

Int. Cl. : A 61 f 13/00.

A COMPOSITE ABSORBENT PRODUCT AND A METHOD OF PREPARING THE SAME.

Applicant : PERSONAL PRODUCTS COMPANY OF MILTOWN, NJ 08850, U. S.A.

Inventor : I. MICHAEL JAMES JSKRA.

Application No. 589/Cal/85 filed August 13, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

A microcorrugated, perembossed, absorbent composite structure comprising an absorbing layer comprises of a fibrous web having an initial dry bulk density of at least 10 cc/gm., a dry bulk recovery of at least about 30 percent a wet bulk of at least 30 cc/gm., and a weight less than 4 oz/sq. yd., and containing at least 200 percent super-absorbent and a wicking layer, said structure having a Taber stiffness value less than 25.

Compl. specn. 28 pages.

Drgs. 5 sheets

## CLASS

Int. Cl. : F 27 d 3/15.

CLOSURE APPARATUS FOR A TAP HOLE IN THE BOTTOM OF A METALLURGICAL VESSEL.

Applicant : KORTEC AG OF BAHNHOFSTRASSE 21, 6300 ZUG, SWITZERLAND.

Inventors : 1. RALPH WEBBER, 2. WILLIAM WELLS.

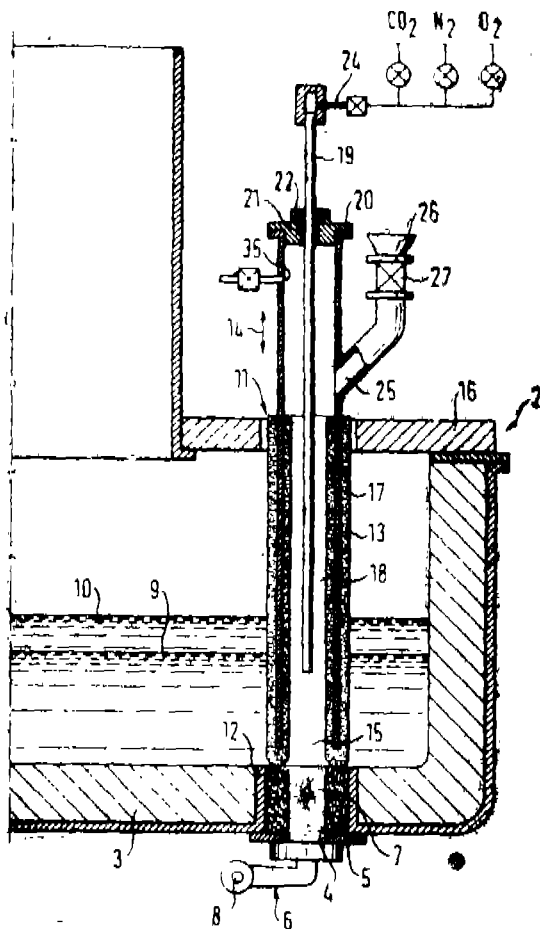
Application No. 733/Cal/85 filed October 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

A closure apparatus for a tap hole (4) in the bottom of a metallurgical vessel (1), in particular a metal smelting furnace, comprising a shut-off member (6) which can close off the tap hole (4) from below and which is protected from direct contact with the molten metal bath (9) by a filling material (7) which is introduced into the tap hole, characterised by a pipe (11) which is displaceable from a lowered blocking position in which it bears against the upper edge (12) of the tap hole (4), into a raised open position in which

it opens the tap hole, and which has a protective layer (13) of refractory material at least in its region of contact with the molten bath.



Compl. specn. 17 pages,

Drgs. 2 sheets

CLASS : 129-G & Q.

164136

Int. Cl. : B 23 k 1/00; B 23 p 3/00.

**A GASEOUS FUEL TORCH APPARATUS ADAPTED FOR USE IN CUTTING OR WELDING OPERATIONS.**

Applicant : MICHIGAN CONSOLIDATED GAS COMPANY, OF ONE WOODWARD AVENUE, DETROIT, MICHIGAN 48226, U. S. A.

Inventors : 1. KENNETH STEVE CZERWINSKI, 2. EUGNE GABANY, 3. JOHN WALTER TURKO, 4. SHANTI SROOP SHARMA.

Application No. 88/Ca/86 filed February 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A gaseous fuel torch apparatus adapted for use in cutting or welding operations, said apparatus comprising in combination :

a torch adapted for mixing natural gas and oxygen and for combustion of such mixture;

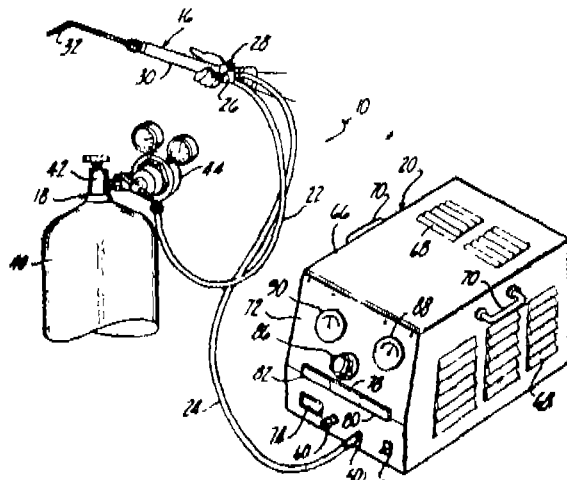
oxygen supply means for supplying oxygen to said torch means; and

a fueling module for supplying gaseous fuel to said torch means, said fueling module including means for supplying gaseous fuel from a relatively low pressure gaseous fuel source, said fueling module including :

fueling module inlet means connectable in fluid communication with said relatively low pressure gaseous fuel source;

compression means in fluid communication with said fueling module inlet means and selectively energizable for compressing said gaseous fuel from said gaseous fuel source in order to increase its pressure, said compression means having a compression intake in fluid communication with said fueling module inlet means and a compression discharge outlet for discharging compressed gaseous fuel from said compression means; and

fueling module discharge means selectively and releasably connectable to said torch means for selectively supplying said compressed gaseous fuel from said compression means to said torch means, said fueling module discharge means including adjustable regulator means in fluid communication with said compression discharge outlet and operable for preselectively adjusting the pressure of said compressed gaseous fuel from said compression means in order to supply said compressed gaseous fuel to said torch means at a preselectively adjusted fueling module discharge pressure.



Compl. specn. 24 pages.

Drgs. 3 sheets

CLASS 132-C.

164137

Int. Cl. : B 01 f 13/00.

**PRESSURE-RESISTANT MIXER.**

Applicants & Inventors : (1) PAUL EIRICH, OF BAHNHOFSTR. 11, 6969 HARDHEIM; (2) HUBERT EIRICH, OF SANDWEG 16, 6969 HARDHEIM; (3) WALTER EIRICH, OF SPESSARTWEG 16, 6969 HARDHEIM, FEDERAL REPUBLIC OF GERMANY.

Application No. 386/Ca/86 filed May 22, 1986.

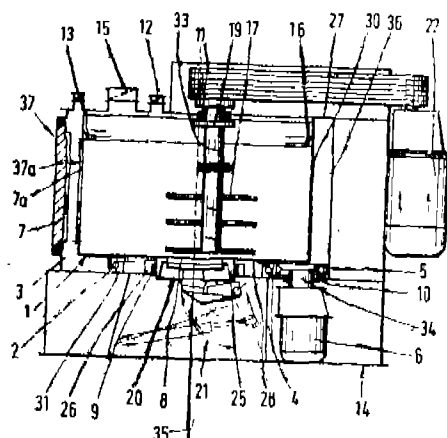
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

A pressure resistant mixing apparatus, which comprises rotatable container means for mixing material, pressure vessel means for enclosing said container means, means for mixing



material in said container means, said mixing means being positioned eccentrically to the axis of said container means, and drive means for selectively driving said mixing means and said container means, said pressure vessel means comprising a side wall, a bottom wall and a cover.



Compl. specn. 24 pages.

Drgs. 6 sheets

CLASS : 151-G.

164138

Int. Cl. : B 16 I 55/00; F 28 f 11/00.

# VACUUM SEALING DEVICE FOR INSULATED STEAM INJECTION TUBING.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U. S. A.

Inventors : 1. PAUL THOMAS ANDERSON, 2. LAWRENCE IRWIN, 3. JOHN CLARENCE MATTHEWS, 4. CHARLES EUGENE PAUGH.

Application No. 432/Cal/86 filed June 6, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A vacuum sealing device for plugging a part in a tube comprising :

clamping means adapted to engaging around a tube and over a port to be plugged in the tube, said clamping means having a space with an opening for communicating with the plug;

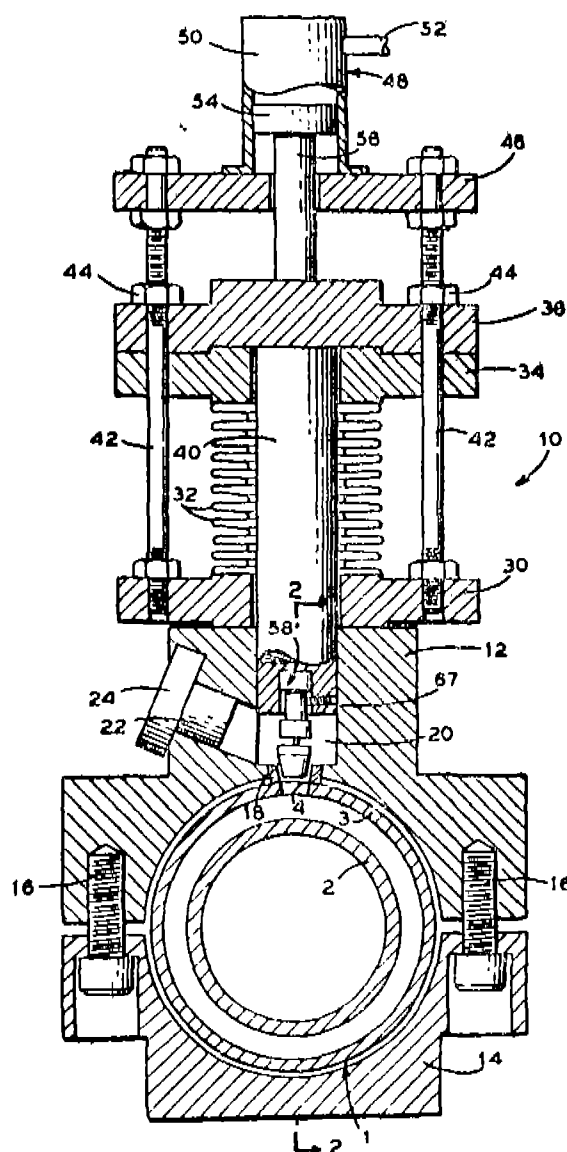
a vacuum connector connected to said clamping means and communicating with said space for drawing a vacuum from said space;

a sealing pin movable in said space between a first position spaced away from said opening and a second position extending into said opening, said sealing pin having a plug portion and a shank portion with a breakable tab connected between said plug portion and shank portion; and

drive means for driving said sealing pin from its first position to its second position whereby said plug portion can be sealed into a port of a tube engaged

2-427 GI/88

by said clamping means, and for breaking said tab to separated said plug portion from said shank portion.



Compl. specn. 10 pages.

Drgs. 2 sheets

CLASS :

164139

Int. Cl. : F 23 d 1/00.

# PRIMARY AIR EXCHANGE DEVICE FOR A PULVERIZED COAL BURNER.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P. O. BOX 60035, NEW ORLEANS, LA 70160, U. S. A.

Inventors : 1. ALBERT DANIEL LA RUE, 2. ROGER ALLEN CLOCKER, 3. NORMAL FERGUSON SMITH JR.

Application No. 545/Cal/86 filed 21, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A primary air exchange device for a pulverized fuel burner comprising :

a supply line for supplying a combination of primary air and pulverized fuel to a furnace;

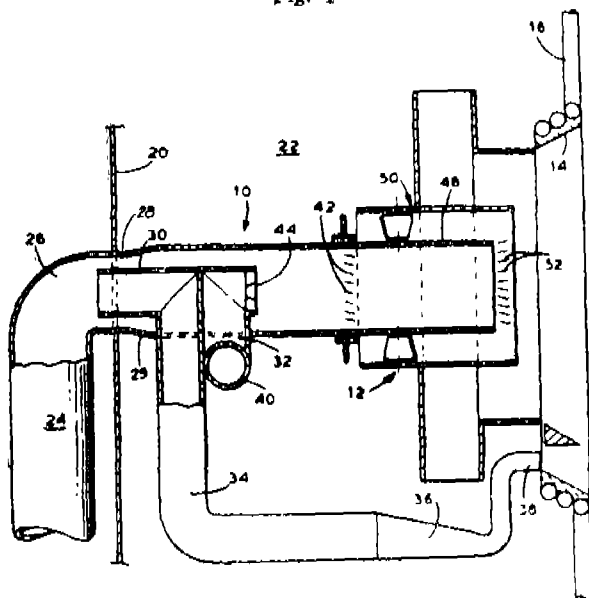
separator means secured to said supply line for removing from said supply line a first mixture comprising generally one half of said primary air and a relatively small percentage of said pulverized fuel;

a rich fuel line connected to said supply line for conveying a second mixture comprising the remainder of said primary air and the remaining relatively large percentage of said pulverized fuel past said separator, said rich fuel line forming a burner nozzle for injecting said second mixture into said furnace;

a hot air injector intermediate said furnace and said separator means for injecting hot air into said rich fuel line for mixing with said second mixture; and

hot air means connected to said hot air injector for supplying said hot air to said hot air injector.

Fig. 1



Compl. specn. 11 pages.

Drgs. 4 sheets

164140

Int. Cl. : C 21 b 13/00.

PROCESS FOR A DIRECT REDUCTION OF IRON OXIDE CONTAINING MATERIALS TO FORM SPONGE IRON IN A ROTARY KILN.

Applicant : METALLGESELLSCHAFT AKTIENGESELLSCHAFT OF REUTERWEG 14, D-6000 FRANKFURT AM MAIN, WEST GERMANY.

Inventors : 1. GERD ELSSENHEIMER, 2. WOLFRAM SCHNABET.

Application No. 584/Cal/86 filed July 31, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

A process for a direct reduction of iron oxide containing materials to form sponge iron in a rotary kiln, wherein the charge is moved through the rotary kiln counter-currently to the gas atmosphere, solid carbonaceous reducing agent having a high content of volatile constituents is charged into the rotary kiln at its charging end, solid carbonaceous reducing agent having a high content of volatile constituents is blown into the rotary kiln at its discharge end and is distributed over the charge in part of the length of the kiln, and oxygen-containing gases are introduced into the rotary kiln through its shell at a plurality of locations, characterized in that solid carbonaceous material having a high content of volatile constituents is separated into a coarser fraction and a finer fraction, a part of the coarser fraction and part of the finer fraction are mixed, the resulting mixture is blown by a blowing device into the rotary kiln at its discharge end, said mixture consists in an amount of 10 to 40% of the finer fraction and in an amount of 90 to 60% of the coarser fraction and is blown at a rate of up to 50% of the total feed rate of solid carbonaceous material, the blown mixture is distributed over up to 50% of the length of the kiln, and the remaining solid carbonaceous material is charged into the rotary kiln at its charging end.

Compl. specn. 15 pages.

Drg. Nil

164141

Int. Cl. : F 04 C 2/02, 18/02.

SCROLL TYPE FLUID DISPLACEMENT APPARATUS WITH VARYING SCROLL THICKNESS.

Applicant : SANDEN CORPORATION, A JAPANESE CORPORATION, OF 20, KOTOBUKI-CHO, ISESAKI-SHI, GUNMA-KEN, JAPAN.

Inventors : YASUYUKI MATSUDAIRA; MASAHARU HIRAGA.

Application No. 900/Mas/84 filed 21 November 1984.

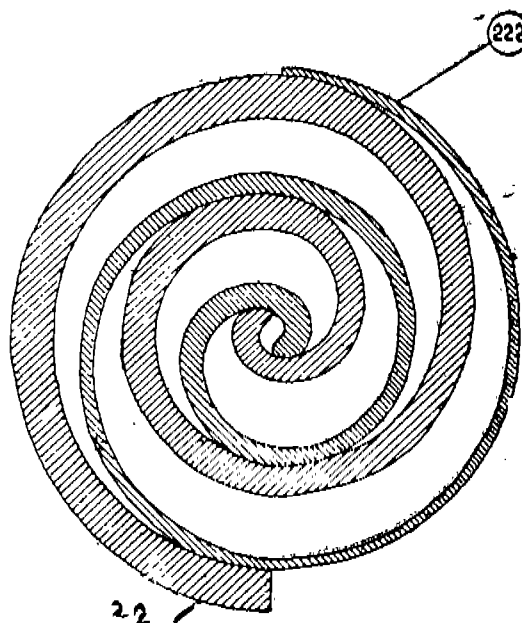
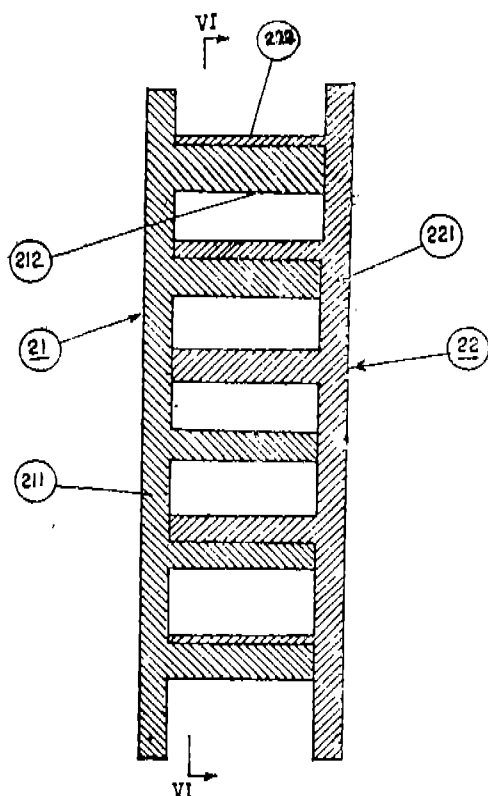
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 4 Claims

A scroll type fluid displacement apparatus including a pair of scrolls each having circular end plate and a wrap element affixed to and extending from a side surface of said end plate, both scrolls being maintained at an angular and radial offset so that said wrap elements interfit to make a plurality of line contacts to define at least one pair of sealed off fluid pockets, and a driving mechanism operatively connected to one of said scrolls to effect a relative orbital motion of said one scroll with respect to the other scroll to thereby change the volume of fluid pockets said wrap element of said one scroll having a thickness which is gradually reduced from the inner end portion towards the outer end portion thereof so as to strengthen the inner end portion of said wrap element of said one scroll without increasing the centrifugal force generated by said one scroll during the relative orbital motion and said wrap

element of said other scroll having a thickness which is gradually increased from the inner end portion to the outer end portion so as to compensate for the reduction in thickness

of the facing wrap element of said one scroll and thereby achieve proper line contacts between said wrap elements.



Compl. specn. 13 pages.

Drgs. 6 sheets

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 9 Claims

An underwater demolition device comprising holding means for holding the device on a ferrous structure, an explosive charge, a detonator, control means for applying to the detonator at a selected time a firing signal to which the detonator responds by detonating the charge and signalling means to provide a movement signal in response to movement of the device away from the structure with which the device is in contact after arming, wherein the control means comprises terminals at which the firing signal is presented and the detonator is connected with said terminals, and indicating means is provided which is distinct from the signalling means being operatively associated with the signalling means and adapted to provide a visual signal indicating that said movement has occurred when the movement signal is applied to the indicating means.

Compl. specn. 14 pages.

Drgs. 2 sheets

Int. Cl.4 : F 42 B 22/26.

#### AN UNDERWATER DEMOLITION DEVICE AND METHOD OF PREPARING IT.

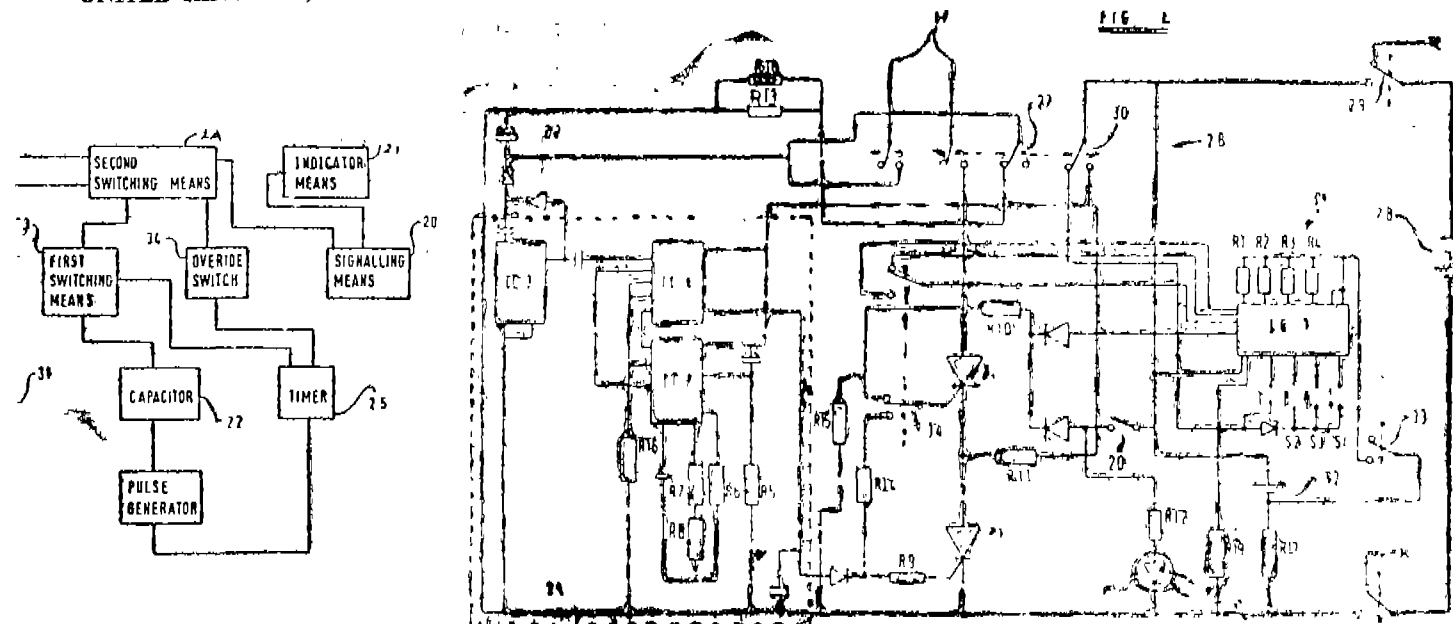
Applicant : M. P. COMPACT ENERGY LIMITED, A BRITISH COMPANY, OF 503 CONVENTRY ROAD BIRMINGHAM, UNITED KINGDOM.

Inventor : MALCOLM GEORGE PALMER.

Application No. 1024/Mas/84 filed 21st December 1984.

Convention dated 22nd December 1983 (No. 8334225; UNITED KINGDOM).

164142



164143

Inventor : STALDER HERBERT.

Int. Cl.<sup>4</sup> : C 07 C 1/04.

Application No. 116/Mas/85 filed February 12, 1985.

PROCESS FOR THE PREPARATION OF HYDROCARBONS BY CATALYTIC REACTION OF CARBON MON-OXIDE WITH HYDROGEN.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., OF CAREL VAN BYLANDT LAAN 30, 2596 HR THE HAUGE, THE NETHERLANDS, A NETHERLANDS COMPANY.

Inventor(s) : MARTIN FRANCISCUS MARIA POST AND SWAN TIONG SIE.

Application No. 106/Mas/85 filed on February 8, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) the Patent Office, Madras Branch.

## 7 Claims

A process for the preparation of hydrocarbons by catalytic reaction of carbon monoxide with hydrogen characterized in that a  $H_2$ - and  $CO$ - containing feed with a  $H_2/CO$  molar ratio ( $F$ ) in the range between 0.25 and 1.0 is contacted at elevated temperature and pressure such as herein described with a mixture of two catalysts, the one catalyst being a catalyst which comprises 3-60 pbw of cobalt and 0.1-100 pbw of at least one other metal chosen from the group formed by zirconium, titanium and chromium per 100 pbw of silica, alumina or silica-alumina and which has been prepared by kneading and/or impregnation and satisfying the relation

$$(3+4R) > \frac{L}{S} > (0.3+0.4), \text{ wherein}$$

$L$  = the total quantity of cobalt present on the catalyst, expressed as mg Co/ml catalyst,

$S$  = the surface area of the catalyst, expressed as  $m^2/ml$  catalyst and

$R$  = the weight ration of the quantity of cobalt deposited on the carrier by kneading to the total quantity of cobalt present on the catalyst,

and the other catalyst being a copper- and zinc- containing composition having a  $Cu/Zn$  atomic ratio in the range between 0.1 and 10, and that the two catalysts are present in the catalyst mixture in such a ratio as to satisfy the relation

$$(0.5 \times \frac{2-F}{1+F}) < M < 5 \times \frac{2-F}{1+F}$$

wherein  $M$  represents the  $(Cu+Zn)/Co$  atomic ratio in the catalyst mixture.

Compl. specn. 14 pages.

Drg. Nil

164144

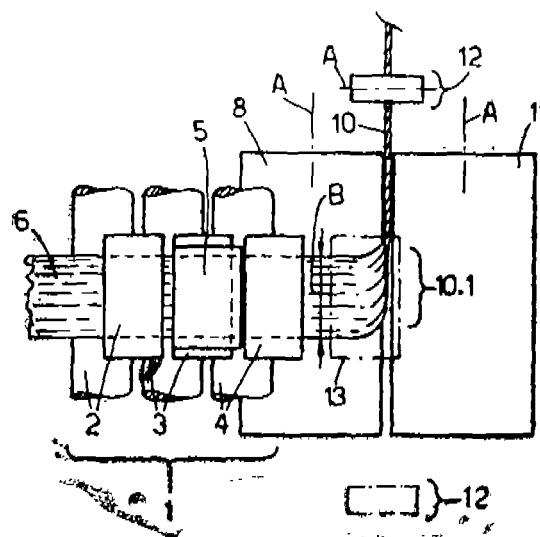
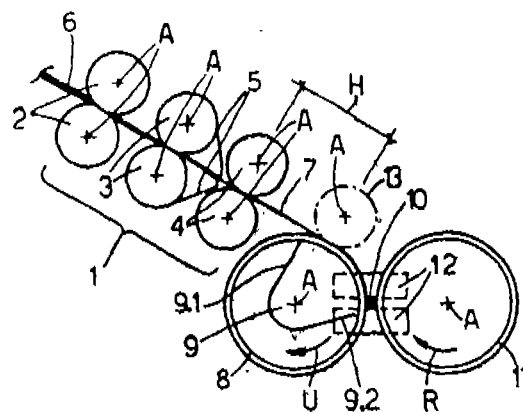
Int. Cl.<sup>4</sup> : D 01 H 1/243.

METHOD AND APPARATUS FOR PRODUCING A YARN USING FRICTION SPINNING MEANS.

Applicant : MASCHINENFABRIK RIETER AG, A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF CH-8406 WINTERTHUR, SWITZERLAND.

## 19 Claims

Method for the production of a yarn using friction spinning means (8, 11) in which fibres are separated from a fibre strand and are transferred to the friction spinning means to form the yarn and the spun yarn (10) is withdrawn in direction given by the friction spinning means wherein the fibres are guided substantially mechanically over the whole way from the fibre strand until they are taken up by the friction spinning means (8, 11).



Compl. specn. 20 pages.

Drgs. 5 sheets

164145

Int. Cl.<sup>4</sup> : B 29 C 41/00.

A PROCESS FOR PREPARING A HEAT RECOVERABLE MOULDED HOLLOW ARTICLE COATED WITH A HEAT-CURABLE MIXTURE.

Applicant : RAYCHEM LIMITED, A BRITISH COMPANY, OF ROLLS HOUSE, 7 ROLLS BUILDINGS FETTER LANE LONDON, E. C. 4 INL, ENGLAND.

Inventors : MICHEAL JOHN READ; MICHEAL ROSSER READ; STEPHEN J. OSBORNE; GEOFFREY PETER HANKS.

Application No. 122/Mas/85 filed 13 February 1985.

Convention dated 14th February 1984 (No. 8403823 : UNITED KINGDOM).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 15 Claims

A process for preparing a heat recoverable moulded hollow article wherein the said article is precoated on at least a part of its surface with a heat curable mixture comprising at least two reactive components and a water soluble binder having no free hydroxy groups, at least one of the reactive components is a thermoplastic epoxy resin and the other reactive component is an adduct of the epoxy resin with a compound containing reactive component having a particle size of 300 micrometres wherein not more than 40% by weight of the particle is less than 50 micrometres, and subjecting the said article to heat treatment to adhesively bond cure the constituent components of the mixture precoated on the said article so as to assume a heat stable state.

Compl. specn. 22 pages.

Drg. Nil

164146

Int. Cl.<sup>4</sup> : G 01 V 1/16.

#### A SOUND WAVE RECEPTION DEVICE.

Applicant : INSTITUT FRANCAIS DU PETROLE, ORGANISME PROFESSIONNEL, AYANT SON SIEGE SOCIAL AU : OF 4, AVENUE DE BOIS-PREAU, 92502 RUEIL-MALMAISON FRANCE AND COMPAGNIE GÉNÉRAL DE GEOPHYSIQUE, OF 6 RUE GALVANI, 91301 MASSY, FRANCE.

Inventor : PHILIPPE GURENDEL, CHARLES NAVILLÉ, JEAN LAURENT, PASCAL DEVOLE.

Application No. 126/Mas/85 filed 14 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 17 Claims

A sound wave reception device positioned to receive sound waves in wells or drill holes, within a probe lowered into a borehole at the end of a cable, said probe being provided with at least one anchoring movable arm, the opening of said movable arm of arms pushing the probe towards a wall of the borehole, the said device comprising at least one receiver assembly, an actuating jack associated with pressure means for moving the said receiver assembly or assemblies along an axis of said jack between a retracted position and a position in which the receiver assembly or assemblies are coupled with the wall of the borehole, and resilient suspension means interposed between the probe and said receiving assembly or assemblies to oscillate along a direction substantially perpendicular to the axis of the said jack; whereby vibrations from the probe to the receiver assembly or assemblies are dam-

pended particularly along a direction substantially perpendicular to the axis of said jack.

Fig. 1

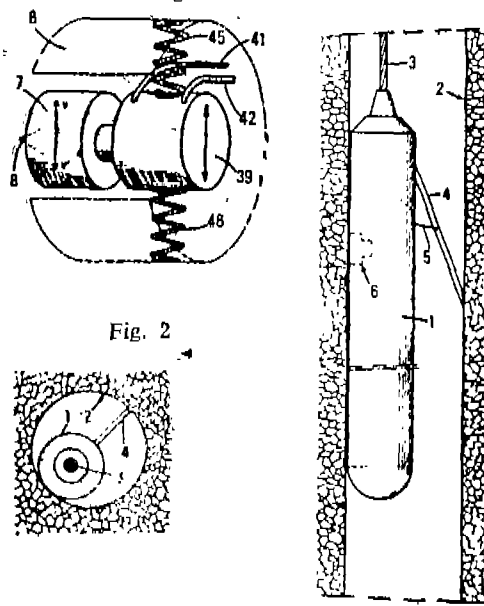
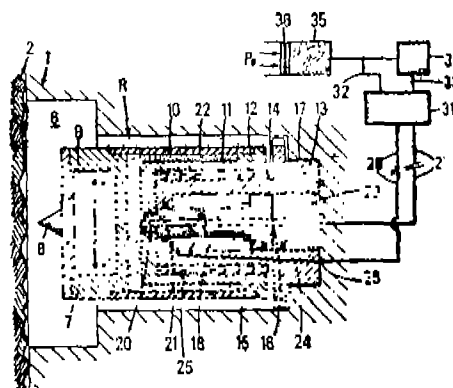
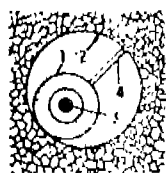


Fig. 2



Compl. specn. 21 pages.

Drgs. 6 sheets

164147

Int. Cl.<sup>4</sup> : B 65 D 8/00.

#### PRESSURE-RESISTANT BEVERAGE CONTAINER.

Applicant : INDAG GESELLSCHAFT FOR INDUSTRIE-BEDARF mbH OF RUDOLF-WILD-STRASSE 4, 6900 HEIDELBERG-EPPELHEIM, FEDERAL REPUBLIC OF GERMANY, A LIMITED LIABILITY COMPANY ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventor : RAINER WILD.

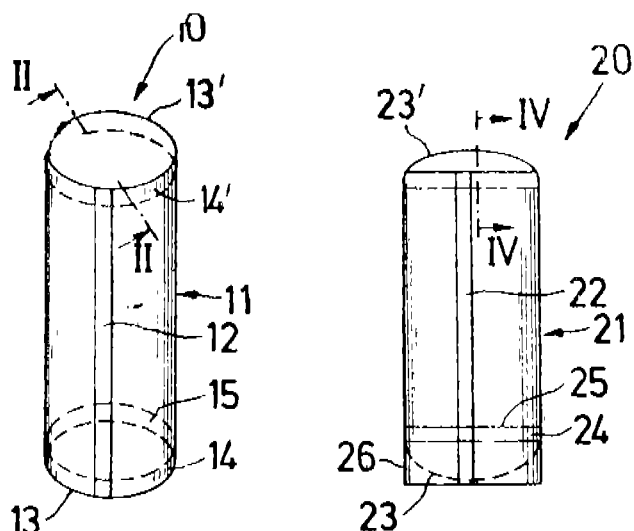
Application No. 127/Mas/85 filed 14 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 5 Claims

A beverage container of flexible multi-layer sheet material having a layer of liquid-impermeable weldable plastics material facing inwardly of the container and an outwardly adjoining layer of material impermeable to aromatic substances, the container being constructed as a pressure vessel for resistance to internal pressure generated by a beverage filling containing carbon dioxide and comprising a tubular body portion

defining two mutually opposite ends and two end caps connected to the body portion to close off the body portion at its ends, each of the end caps having a peripheral flange disposed inside and welded to the body portion.



Compl. specn. 9 pages.

Drg. 1 sheet

Int. Cl.4 : B 22 c 9/08 & 13/02.

164148

**A KEY AND SPRUE ASSEMBLY STRUCTURE PRODUCED BY DOUBLE-SHOT MOULDING.**

Applicant : INDUSTRIE FACE STANDARD SPA, AN ITALIAN COMPANY OF VIA LUIGI BODIO 33-39, MILANO 20158, ITALY.

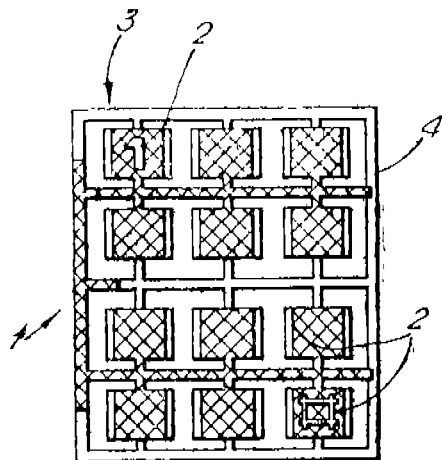
Inventor : AGOSTINO COLDERONI.

Application No. 138/Mas/85 filed February 18, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

### 3 Claims

A Key-and-sprue assembly structure for use in fabrication of a keyboard comprising a member of keys inter-connected by a sprue at two points, the sprue consists of two complementary portions which define a frame surrounding the keys and a network structure located between the keys.



Compl. specn. 8 pages.

Drg. 1 sheet

Int. Cl.4 : F 16 G 11/00.

**A SPLICE CASE FOR ELONGATED OBJECTS SUCH AS CABLES.**

Applicant : PREFORMED LINE PRODUCTS COMPANY, A CORPORATION OF THE STATE OF OHIO OF 630 BETA DRIVE, CLEVELAND OHIO 44143, U. S. A.

Inventor : ERWIN HERBERT GOETTER.

Application No. 269/Mas/85 filed 6th April 1985.

Convention dated 15th March 1985 (No. 8506786; GREAT BRITAIN).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

### 16 Claims

A splice case for elongated objects such as cables comprising :

a pair of splice case members reversely positioned in co-operating relationship to define a hollow splice case;

each said splice case member having outwardly extending opposite flanges along the length thereof;

said splice case members being positioned with said flanges thereon opposed to one another to define a pair

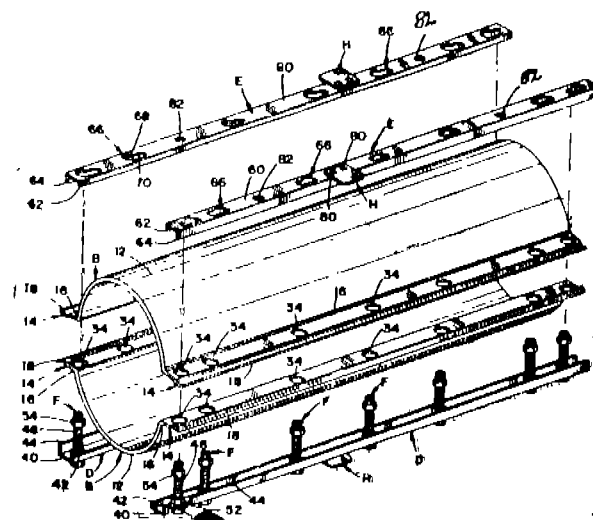
of cooperating flanges on each of opposite sides of said splice case;

a pair of elongated fastener strips extending along opposite sides of each said pair of cooperating flanges;

fastener assemblies for clamping each said pair of fastener strips together to thereby compress the pair of flanges received therebetween;

each said fastener strip having at least one longitudinal leg projecting therefrom; and

each said pair of fastener strips being positioned with said longitudinal legs thereon extending toward one another in opposed relationship.



Compl. specn. 22 pages.

Drg. 1 sheet

164150

164151

Int. Cl.<sup>4</sup> : F 16 C 3/22, F 02 75/32.**COMPACT CRANK DRIVE MECHANISM FOR THE TWO PISTON STIRLING ENGINE.**

Applicant & Inventor : MELVIN ANDREW ROSS, 4195 MUMFORD CT, COLOMBUS, OH 10 (U. S. A.) (A CITIZEN OF THE UNITED STATES OF AMERICA).

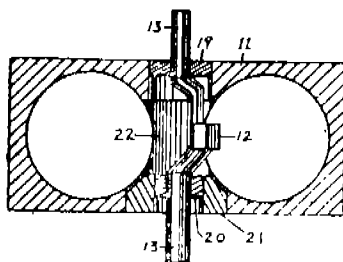
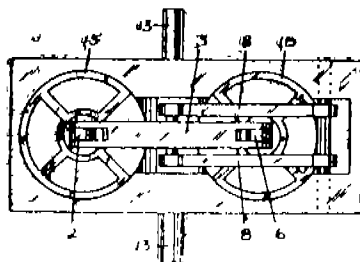
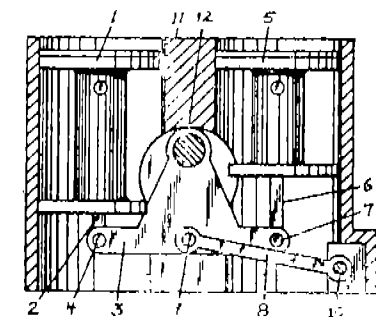
Application No. 342/Mas/85 filed 7th May 1985.

Appropriate Office for Opposition proceedings (Rule 4, Patents rules, 1972) Patent Office, Madras Branch.

**6 Claims**

A crank drive mechanism for drivingly linking a crankshaft to two pistons which reciprocate along substantially parallel axes lying in plane with two adjacent cylinders in a housing said mechanism comprising :

- (a) a Crankshaft journaled to said housing, the axes of said crankshaft being located between said cylinders, within the limits of reciprocation of at least one of said pistons, and transverse to the plane of the axes of said cylinders;
- (b) A yoke with 4 pivot axes, said yoke rotatably attached to the throw of the said crankshaft, one of the said yoke pivot axes defining a circularly moving portion of the yoke;
- (c) A pair of connecting rods, each rod pivotally connected at one end to said yoke, at second and third yoke pivot axes, respectively and pivotally connected at its opposite end to one of the said two pistons; and
- (d) A rocking lever pivotally attached at one end to said housing laterally of said yoke and pivotally attached to said yoke at a fourth yoke pivot axis; wherein a portion of at least one cylinder wall is relieved and the circularly moving portion of the yoke passes through the relieved portion of the wall.



Compl. specn. 11 pages,

Drg. 1 sheet

Int. Cl.<sup>4</sup> : H 01 L 31/18.**METHOD OF FORMING OHMIC CONTACTS.**

Applicant : SOHIO COMMERCIAL DEVELOPMENT COMPANY, A DELAWARE CORPORATION, LOCATED AT MIDLAND BUILDING, CLEVELAND OHIO 44115, UNITED STATES OF AMERICA AND BP PHOTOVOLTAICS LIMITED, A BRITISH CORPORATION, LOCATED AT MOOR LANE, LONDON, ENGLAND.

Inventor : BULENT M. BASOL.

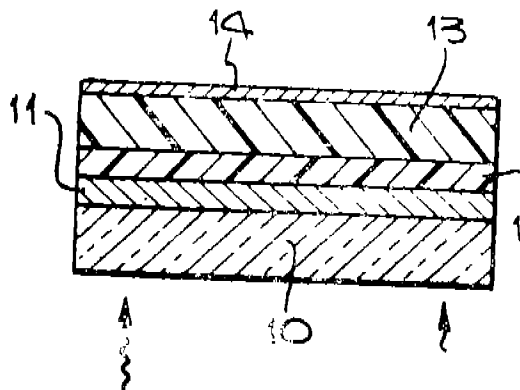
Application No. 460 Mas/84 filed 26th June 1984.

Appropriate Office for Opposition proceedings (Rule 4, Patents rules, 1972) Patent Office, Madras Branch.

**9 Claims**

A method of forming ohmic contacts with thin film of a p-type semiconductor compound formed of at least one of the metal elements of Class II B of the periodic Table of Elements and one of the non-metal elements of Class VI A of the periodical Table of Elements which comprises the steps of :

- (a) etching the surface of said film with an aqueous solution of an acid of the kind such as herein described to form a non-metal-rich surface;
- (b) treating the surface of the acid etched film with an aqueous solution of a base of the kind such as herein described; and
- (c) depositing on the etched and treated surface a layer of conductive metal of the kind such as herein described.



Compl. specn. 12 pages.

Drg. 1 sheet

164152

Int. Cl.<sup>4</sup> : B 22 C 9/24.**APPARATUS AND METHOD FOR VACUUM FORMING ARTICLES FROM FIBROUS SLURRY.**

Applicant : VERNON & COMPANY (PULP PRODUCTS) LIMITED A BRITISH COMPANY, OF SLATER STREET, BOLTON, LANCASHIRE BL1 2HP, ENGLAND.

Inventor(s) : MARTIN WALLER, GEOFFREY FARREL, KENNETH WILSON MILLS (DECEASED).

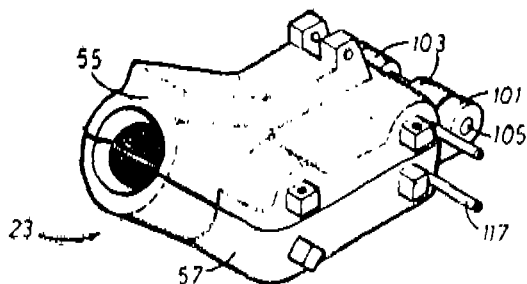
Application No. 104/Mas/85 filed on February 7, 1985.

Convention dated 10th February 1984, No. 8403507 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 44 Claims

Apparatus for vacuum forming articles from a fibrous slurry, comprising a plurality of moulds each mould comprising at least first and second mould members and having a fluid permeable member which is supported by a part of each mould member, forming a moulding surface on the mould members which define the shape of the article to be vacuum formed when the first and second members are in their closed positions, a chamber being formed in each mould member which is in communication with the fluid permeable member, a port being provided in each mould member through which suction is applied to the said chambers an aperture in the mould for admitting the fibrous slurry into the first and second mould members for controlling the opening and closing thereof in a non-linear manner, a transport means movable in an endless path, on which the moulds are mounted, suction means capable of drawing heated air through the mould when suction is applied, a tank containing the fibrous slurry, actuating means, and means for closing the mould members before they reach the slurry tank.



Compl. specn. 30 pages.

Drgs. 5 sheets

164153

Int. Cl.<sup>4</sup> : C 07 C 1/04.

### PROCESS FOR THE PREPARATION OF HYDROCARBONS.

Applicant : SHELL INTERNATIONALE RESEARCH MATSCHAPPIJ B. V., A NETHERLANDS COMPANY, OF CAREL VAN BYLANDT LAAN 30, 2596 HR, THE HAGUE, THE NETHERLANDS.

Inventors : (1) MARTIN FRANCISCUS MARIA POST, (2) SWAN TIONG SIE.

Application No. 107/Mas/85 filed February 8, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 7 Claims

A process for the preparation of hydrocarbons by catalytic reaction of carbon monoxide with hydrogen, characterised in that a H<sub>2</sub>- and CO- containing feed having a H<sub>2</sub>/CO molar ratio (F) in the range between 0.75 and 1.75 is contacted in the first step with a catalyst comprising 3—60 pbw of cobalt and 0.1—100 pbw of at least one other metal chosen from the group formed by zirconium, titanium and chromium per 100 pbw of silica, alumina or silica-alumina which catalyst has been prepared by kneading and/or impregnation and satisfying the relation

$$150 \times \frac{F-0.5}{F+1} < C < 250 \times \frac{F-0.5}{F+1}$$

wherein C represents the H<sub>2</sub>+CO conversion expressed as %mol and remove the water from the obtained product containing C<sub>4</sub> hydrocarbons, C<sub>3</sub> hydrocarbons, H<sub>2</sub> and

CO, converting the unconverted H<sub>2</sub> and CO into hydrocarbons by containing the said product in second step with a catalyst combinations such as hereinbefore is used which satisfies the relation :

$$(3+4R) > \frac{L}{S} > (0.3+0.4R), \text{ wherein}$$

L = the total quantity of cobalt present in the catalyst, expressed as Co/ml catalyst,

S = the surface area of the catalyst, expressed as m<sup>2</sup>/ml catalyst, and

R = the weight ratio of the quantity of cobalt deposited on the carrier by kneading to the total quantity of cobalt present in the catalyst.

Compl. specn. 17 pages.

Drg. Nil

164154

Int. Cl.<sup>4</sup> : A 61 F 2/48.

A SPHINCTER SUITABLE FOR IMPLANTATION SO AS TO EMBRACE A PATIENT'S URETHRA FOR OCCLUDING AND OPENING THE URETHRA AND CONTROLLING THE PASSAGE OF URINE THERE-THROUGH.

Applicant : HABLEY MEDICAL TECHNOLOGY, INCORPORATED 23181 VERDUGO DRIVE, UNIT 105-B, LAGUNA HILLS, CALIFORNIA 92653, UNITED STATES OF AMERICA.

Inventor : TERRY M HABER.

Application No. 108/Mas/85 filed February 8, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 10 Claims

A sphincter suitable for implantation so as to embrace a patient's urethra for occluding and opening the urethra and controlling the passage of urine therethrough, said sphincter comprising :

an articulating structure means (10 or 52) having an occluding orifice (11 or 53) for surrounding the urethra, at least a portion of said articulating structure means having a chamber (54) adapted to receive there-within a fluid medium for causing said occlusion orifice to close the urethra and inhibit the passage of urine therethrough,

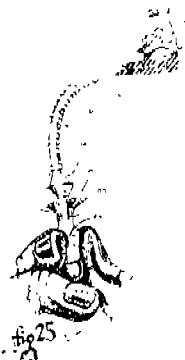
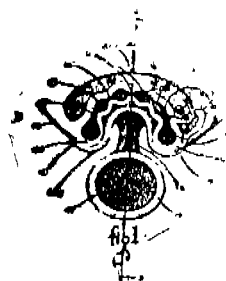
reservoir means (64) having a supply of fluid medium therein,

Channel means (66) extending between said reservoir means and the chamber of said articulating structure means to permit the fluid medium to flow therebetween, and

normally closed flow control valve located within said channel means (66) for controlling the passage of fluid medium between said reservoir means and said articulating structure means, said valve means including : (1) at least two arcuate flow control appendages (102) extending across said channel means and engaging one another to form a closure across said channel means to prevent the passage of fluid medium through said valve means in direction towards said reservoir



means and the interface of said arcuate appendages to receive therein fluid medium from said reservoir means and thereby cause a separation of said flow control appendages to permit the passage of fluid medium through said valve means in a direction towards said chamber.



Int. Cl.<sup>4</sup> : C 05 B 21/00.

# AN IMPROVED PROCESS FOR THE PRODUCTION OF A FERTILIZER.

Applicant : KEMIRA OY A FINISH JOINT STOCK COMPANY, OF MALMINKATU 30, SF-00100 HELSINKI, FINLAND.

Inventor : PEKKA TAPANI LAMMI.

Application No. 139/Mas/85 filed 18 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

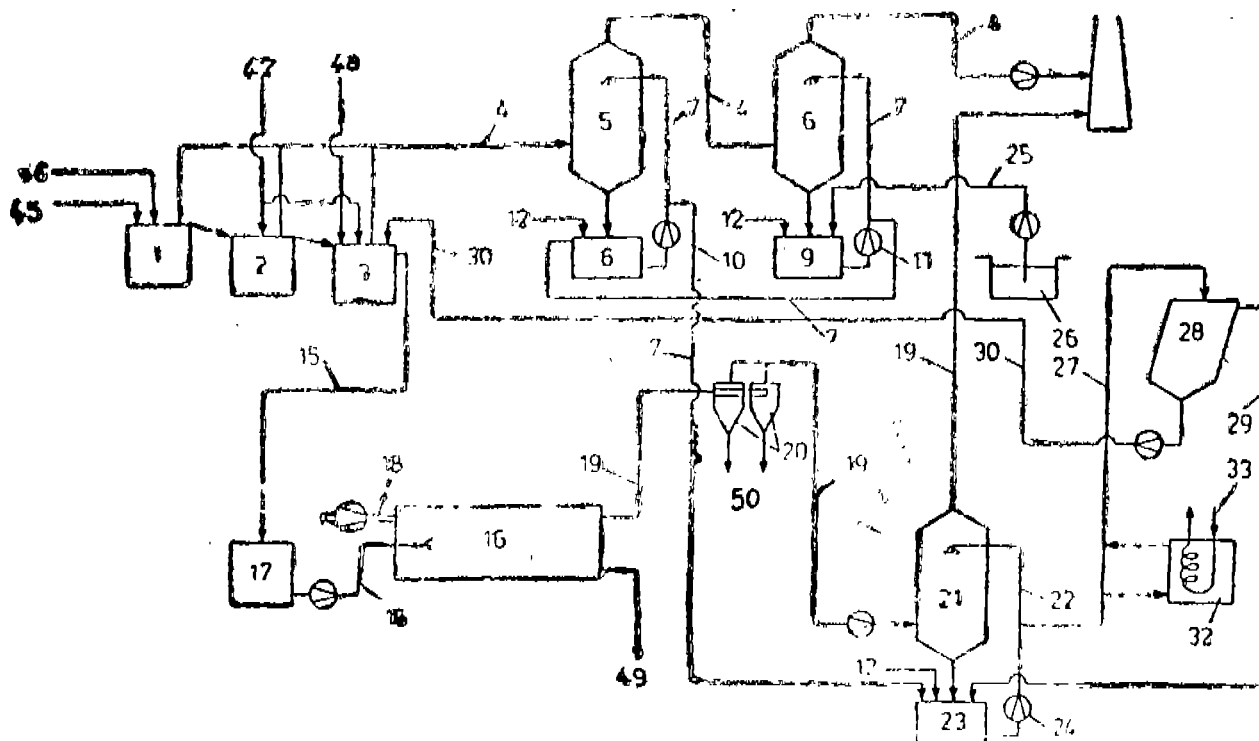
## 8 Claims

In a process for the production of fertilizer wherein phosphorus, nitrogen, potassium or combinations thereof are leached and neutralized to produce a fertilizer slurry and resultant flue gases being water-rich and having a temperature of about 70° to about 120°C., said slurry being directed to a drying means wherein air is contacted therewith to yield fertilizer product, resultant drying gases having a temperature of about 70°—90°C., the improvement comprises recovering nutrients such as ammonia, fluorides, nitrogen oxides, solid fertilizer particles and aerosols from said flue reaction gases and drying gases by :

- (a) scrubbing the reaction gases in a countercurrent fashion in scrubbing means with a known scrubbing solution;
- (b) recovering said scrubbing solution from said scrubbing means; and
- (c) scrubbing said drying gases with said scrubbing solution recovered in step (b) whereby said scrubbing solution is concentrated with respect to said nutrients.

Compl. specu. 54 pages.

Drgs. 7 sheets



Compl. specu. 13 pages.

Drgs. 3 sheets

164156

Int. Cl.<sup>4</sup> : F 04 B 49/00.**A WOBBLE PLATE TYPE REFRIGERANT COMPRESSOR.**

Applicant : SANDEN CORPORATION OF 20, KOTOBUKI-CHO ISESAKI-SHI, GUNMAKEN, JAPAN  
JAPANESE COMPANY.

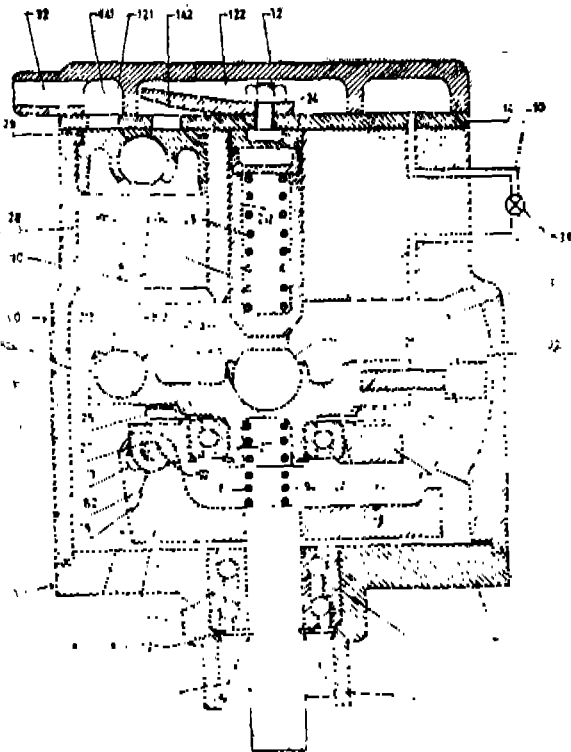
Inventor(s) : KIYOSHI TERAUCHI.

Application No. 140/Mas/85 filed on February 18, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

**7 Claims**

A refrigerant compressor with a compressor housing having a front end opening, a cylinder block at a rear end thereof, and a crank chamber frontwardly adjacent said cylinder block said cylinder block being provided with a plurality of cylinders, a piston slidably fitted within each of the cylinders, a front end plate mounted on said housing to close said front end opening thereof, a rear end plate disposed on the opposite rear end thereof and having a suction chamber and a discharge chamber, said crank chamber and said suction chamber being connected by a passageway, control means for controlling the opening and closing of the passageway, a driving mechanism with a drive shaft supported by a bearing in said front end plate and extending in said crank chamber, an input drive rotor mounted on an inner terminal end of said drive shaft, and a wobble plate for reciprocating the pistons, said wobble plate having a first side directed towards said front end plate and a second opposite side directed towards said rear end plate, wherein said input drive rotor has a rotor member fixed on the inner terminal end of said drive shaft and a slant plate having a sloping surface inclined by a slant angle from the central axis of said drive shaft, said slant plate being hinged with said rotor member in a manner to vary said slant angle thereof, and said sloping surface of said slant plate being in close proximity to said first side of said wobble plate, and a supporting member being axially slidable in said cylinder block and coupled to said second side of said wobble plate to support said wobble for nutational motion.



Compl. specn. 18 pages.

Drgs. 3 sheets

164157

Int. Cl.<sup>4</sup> : C 22 C 19/03.**A PROCESS FOR PREPARING HIGH TEMPERATURE OXIDATION RESISTANT ALLOY.**

Applicant : HAYNES INTERNATIONAL INCORPORATED, OF 1020 WEST PARK AVENUE KOKOMO, INDIANA, 46901, UNITED STATES OF AMERICA, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA.

Inventors : KRISHNA VENKATA RAO; ROBERT BLANCHARD HERCHENROEDER.

Application No. 142/Mas/85 filed 19th February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

**3 Claims**

A process for preparing a high-temperature oxidation resistant alloy comprising the steps of combining elements in a molten state, preferably by vacuum melting, then by electroslag remelting in the proportions, by weight of 14 to 18% chromium, 1.5 to 8% iron, 0.005 to 0.2% zirconium, 4.1 to 6% aluminium, and optionally one or more of the following upto 12% cobalt, upto 1% manganese, upto 1% molybdenum, upto 1% silicon, upto 0.25% carbon, upto 0.02% boron, upto 1% tungsten, upto 0.05% tantalum, upto 0.2% titanium, upto 0.5% hafnium, upto 0.2% rhenium, and the balance essentially nickel plus normal impurities said nickel plus said cobalt being at least 66%, then solidifying the alloy into an essentially homogeneous mass.

The alloys prepared according to this invention are useful as hardware in ceramic kilns and heat treating furnaces.

Compl. specn. 14 pages.

Drg. Nil

164158

Int. Cl.<sup>4</sup> : C 10 K 1/00.**PROCESS OF DESULFURIZING A FUEL GAS OBTAINED BY GASIFICATION OF COAL CONTAINING SULFUR.**

Applicant : UNION SIDERURGIQUE DU NORD ET DE L'EST DE LA FRANCE PER ABREVIATION "USINOR" OF FRENCH NATIONALITY OF DEFENSE 9-4 PLACE DE LA PYRAMIDE-92070 PUTEAUX, FRANCE.

Inventors : JEAN CORDIER, ANDRE RIST.

Application No. 144/Mas/85 filed 20 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

**4 Claims**

A process of desulfurizing of fuel gas obtained by gasification of fuel coal containing sulfur by means of a liquid iron bath comprising subjecting the gas first to the action of vapours of at least one of the substances selected from manganese and manganese oxides in the form of aerosols the gas being at a temperature of 160 to 600°C said vaporous being produced by directing a jet of oxygen into the liquid iron bath containing the said substances and kept at a temperature of 1300 to 1600°C so as to volatilize by the encounter of the jet with the bath and subjecting the resulting gas to the action of vapours of a substance selected from zinc and zinc oxides at a temperature of 350 to 1000°C.

Compl. specn. 10 pages.

Drgs. 2 sheets

164159

164160

Int. Cl.<sup>4</sup> : F 27 B 5/10.**MUFFLE FURNACE FOR CONTINUOUS HEAT TREATMENTS DURING PASSAGE OF THE MATERIAL.**

Applicant : SOCIETE DES ELECTRODES ET REFRAC-TARIES SAVOIE (S. E. R. S.) OF TOUR MANHATTAN-IA DEFENCE 2, 6 PLACE DE L'IRIS-92400 COURBE-VOIE, FRANCE, A FRENCH COMPANY.

Inventors : MICHAEL LOGUE, MAURICE SADZOT.

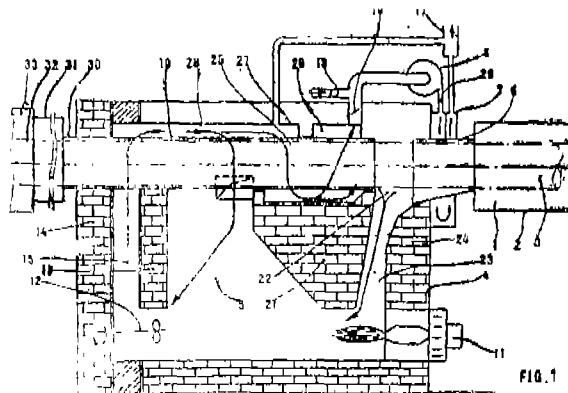
Application No. 146/Mas/85 filed 20 February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 13 Claims

A muffle furnace for continuous heat treatments, during passage of the material, of refractory or carbon-containing products which are impregnated with a carbon-containing material, such as pitch, the pyrolysis of which produced combustible vapours, the production cycle of these products having a passage of predetermined duration at a temperature which is 1100 to 1150°C, this furnace being heated by a flame burner without the combustion gases directly contacting the products to be treated, and comprising :

- an inlet zone heated by circulating recycled combustion gases in a double casing (7) provided around the muffle (10);
- a heating zone, provided inside a heat-insulated chamber (4) provided with at least one means (12) for circulating the combustion gases around the heating zone of the muffle;
- an outlet zone provided with at least one means for controlling the cooling speed of the treated products; characterised in that the heating zone is divided into three sections by a partition (21) :
  - (a) a zone for exuding and removing volatile materials from the carbon-containing impregnation material (pitch) which comprises a muffle having an aperture (22) opening into a passage delimited by the partition (21) and the outer wall (24) and the outlet of which is situated in the vicinity of the flame of the burner (11);
  - (b) a zone (25) for pyrolyzing and carbonizing the carbon-containing impregnation material;
  - (c) a final firing zone (26) in which the maximum temperature required for the heat treatment is reached



Compl. specn. 15 pages.

Drg. 1 sheet

Int. Cl.<sup>4</sup> : H 05 B 7/10.**A DEVICE FOR REDUCING HORIZONTAL OSCILLATIONS OF AN ELECTRODE IN AN ARC FURNACE.**

Applicant : MANNESMANN AKTIENGESSELLSCHAFT, OF MANNESMANNUFER 2, D-4000 DUSSELDORF 1, FEDERAL REPUBLIC OF GERMANY, A WEST GERMAN COMPANY.

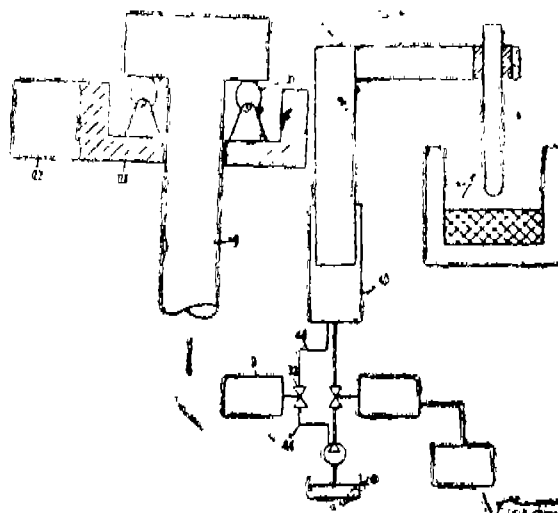
Inventors : FRIEDRICH NORDMEYER, HANS JOACHIM-SCHUBERT, EWALD FEUERSTACKE.

Application No. 160/Mas/85 filed 26th February 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

## 9 Claims

A device for reducing horizontal oscillations of an electrode (1) in an arc furnace the electrode of which being attached to a supporting frame (2), consisting of supporting column (21), supporting arm (22) and electrode holder (23); the said electrode projects vertically into the furnace vessel (6), characterised in that the supporting frame (2) is provided with a lifting and lowering device (4) which consists of an operating cylinder (41), acted upon by pressure means, or a mechanical lifting component and which is controlled by a control element (52) the electrode (1) being set into vertical oscillations by means of an oscillator (3).



Compl. specn. 8 pages.

Drgs. 3 sheets

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